

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|-------------------------|------------|-----------|--|---------------|-----------------|
| 1 | US 20060107167 A1 | 20060518 | 18 | Multiple antenna communication system using automatic repeat request error correction scheme | 714/748 | |
| 2 | US 20050268199 A1 | 20051201 | 9 | Method and circuit for reducing SATA transmission data errors by adjusting the period of sending ALIGN primitives | 714/746 | |
| 3 | US 20050246605 A1 | 20051103 | 9 | Method for processing noise interference | 714/746 | |
| 4 | US 20050204251 A1 | 20050915 | 33 | Transceiver apparatus and method for efficient retransmission of high-speed packet data | 714/748 | |
| 5 | US 20050149808 A1 | 20050707 | 11 | Method and apparatus for combining output of different type interleavers based on an input data sequence to obtain a combined output | 714/746 | |
| 6 | US 20050076284 A1 | 20050407 | 13 | Method and device for transferring data wherein a bit rate adaptation model is signaled between the transmitter and the receiver | 714/749 | |
| 7 | US 20050007948 A1 | 20050113 | 11 | Hybrid automatic repeat request combining method in orthogonal frequency division multiplexing system | 370/208 | 714/746 |
| 8 | US 20040199846 A1 | 20041007 | 33 | Multicarrier communication apparatus and multicarrier communication method | 714/748 | |
| 9 | US 20040193993 A1 | 20040930 | 14 | Error detection for multi-stream communications | 714/746 | |
| 10 | US 20040133836 A1 | 20040708 | 17 | Method and apparatus for performing error correction code (ECC) conversion | 714/746 | |
| 11 | US 20040059978 A1 | 20040325 | 16 | Reduced latency for recovery from communications errors | 714/748 | |
| 12 | US 20030217319 A1 | 20031120 | 13 | RELIABILITY-BASED TYPE-II HYBRID ARQ SCHEME | 714/751 | |

| | Inventor |
|-----------|-----------------------------|
| 1 | Jeong; Hong-Sil et al. |
| 2 | Tseng, Pao-Ching et al. |
| 3 | Tseng, Pao-Ching et al. |
| 4 | Moon, Yong-Suk et al. |
| 5 | Naganathan, Purnima et al. |
| 6 | Dottling, Martin et al. |
| 7 | Wan, Yan et al. |
| 8 | Matsumoto, Atsushi et al. |
| 9 | Roy, Pulakesh et al. |
| 10 | Williams, Emrys |
| 11 | Subrahmanya, Parvathanathan |
| 12 | Tripathi, Vinayak et al. |

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|-------------------------|------------|-----------|---|---------------|---|
| 13 | US 20030126536 A1 | 20030703 | 10 | Delay sensitive adaptive quality control loop for rate adaptation | 714/748 | |
| 14 | US 20030097629 A1 | 20030522 | 34 | Transceiver apparatus and method for efficient retransmission of high-speed packet data | 714/751 | |
| 15 | US 20030005382 A1 | 20030102 | 10 | System and method for frame re-transmission in a broadcast communication system | 714/748 | |
| 16 | US 20020129312 A1 | 20020912 | 13 | Signalling method in an incremental redundancy communication system whereby data blocks can be combined | 714/748 | |
| 17 | US 20020013922 A1 | 20020131 | 15 | Digital transmission method of the error correcting coding type | 714/751 | 714/701 |
| 18 | US 20020012337 A1 | 20020131 | 36 | Wireless communications with efficient retransmission operation | 370/349 | 370/473; 714/748 |
| 19 | US 7007216 B2 | 20060228 | 7 | Rate-matching algorithm for hybrid ARQ system | 714/748 | 370/253; 370/342 |
| 20 | US 7000166 B2 | 20060214 | 18 | Apparatus and method for header decompression | 714/746 | 714/704 |
| 21 | US 6983410 B2 | 20060103 | 10 | System and method for a frame re-transmission in a broadcast communication system | 714/748 | 714/4 |
| 22 | US 6977888 B1 | 20051220 | 17 | Hybrid ARQ for packet data transmission | 370/218 | 370/236; 714/751; 714/758 |
| 23 | US 6959410 B2 | 20051025 | 18 | Apparatus and method for header decompression | 714/746 | 714/704 |
| 24 | US 6909758 B2 | 20050621 | 18 | Systems and methods for decoding data blocks | 375/340 | 370/329; 370/347; 370/465; 375/147; 375/295; 714/751 |
| 25 | US 6904555 B2 | 20050607 | 17 | Decoding apparatus and decoding method, and data receiving apparatus and data receiving method | 714/751 | 714/755; 714/780; 714/790 |

| | Inventor |
|-----------|----------------------------------|
| 13 | Gollamudi, Sridhar et al. |
| 14 | Moon, Yong- Suk et al. |
| 15 | Chen, Tao et al. |
| 16 | Sipola, Jussi |
| 17 | Gueguen, Arnaud |
| 18 | Schmidl, Timothy M. et al. |
| 19 | Hong; Sung Kwon |
| 20 | Hata; Koichi et al. |
| 21 | Chen; Tao et al. |
| 22 | Frenger; Pal et al. |
| 23 | Hata; Koichi et al. |
| 24 | Ramesh; Rajaram et al. |
| 25 | Nagase; Taku et al. |

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|------------------|------------|-----------|--|---------------|---|
| 26 | US 6842445 B2 | 20050111 | 12 | Retransmission method with soft combining in a telecommunications system | 370/349 | 370/338; 714/749 |
| 27 | US 6839325 B2 | 20050104 | 35 | Wireless communication system which uses ARQ packets to ACK a plurality of packets from an 802.15 superpacket | 370/242 | 714/750 |
| 28 | US 6763492 B1 | 20040713 | 25 | Method and apparatus for encoding of linear block codes | 714/752 | 714/746 |
| 29 | US 6728920 B1 | 20040427 | 14 | Method for correcting errors in transfer of information | 714/752 | 714/701; 714/751 |
| 30 | US 6700867 B2 | 20040302 | 18 | Method and system for reduced memory hybrid automatic repeat request | 370/216 | 370/317; 714/748 |
| 31 | US 6697988 B2 | 20040224 | 13 | Data transmission apparatus and method for an HARQ data communication system | 714/752 | 714/748; 714/751 |
| 32 | US 6697986 B2 | 20040224 | 22 | Data transmission apparatus and method for an HARQ data communication system | 714/751 | 714/758 |
| 33 | US 6697985 B1 | 20040224 | 16 | Predictive forward error correction redundancy | 714/751 | 714/786 |
| 34 | US 6671849 B2 | 20031230 | 11 | Reliability-based type-II hybrid ARQ scheme | 714/746 | 375/377; 714/748; 714/749 |
| 35 | US 6594791 B2 | 20030715 | 13 | Signalling method in an incremental redundancy communication system whereby data blocks can be combined | 714/748 | 714/750 |
| 36 | US 6567388 B1 | 20030520 | 13 | Method and apparatus for efficient data retransmission in a voice-over-data communication system | 370/335 | 370/342; 714/748 |
| 37 | US 6530055 B1 | 20030304 | 36 | Method and apparatus for receiving and decoding coded information, including transfer of error information from transmission layer to coding layer | 714/746 | |
| 38 | US 6523148 B1 | 20030218 | 18 | Majority decision method for improved frame error rate in the digital enhanced cordless telecommunications system | 714/797 | 375/342; 714/748; 714/815; 714/822 |
| 39 | US 6493562 B2 | 20021210 | 27 | Information delivery method for vehicular communication devices | 455/517 | 340/905; 455/3.01; 455/73; 714/748 |

| | Inventor |
|----|----------------------------------|
| 26 | Ahmavaara; Kalle et al. |
| 27 | Schmidl; Timothy M. et al. |
| 28 | Hurt; James Y. et al. |
| 29 | Ebersman; Howard Glen |
| 30 | Classon; Brian Keith et al. |
| 31 | Kim; Min-Koo et al. |
| 32 | Kim; Min-Goo et al. |
| 33 | Ilani; Ishai |
| 34 | Tripathi; Vinayak et al. |
| 35 | Sipola; Jussi |
| 36 | Tomcik; James et al. |
| 37 | Fukunaga; Shigeru |
| 38 | Junghans; Andreas |
| 39 | Yoshida; Ichiro et al. |

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|------------------|------------|-----------|--|---------------|---|
| 40 | US 6438723 B1 | 20020820 | 14 | Method and arrangement for the reliable transmission of packet data | 714/751 | |
| 41 | US 6359877 B1 | 20020319 | 20 | Method and apparatus for minimizing overhead in a communication system | 370/349 | 370/232; 370/252; 370/389; 370/391; 370/394; 375/220; 709/237; 709/250; 714/748 |
| 42 | US 6346874 B1 | 20020212 | 14 | Transmitter and receiver, and communication system and communication method | 340/5.2 | 714/746 |
| 43 | US 6324667 B1 | 20011127 | 16 | Radio transmission method and radio transmission device | 714/746 | 714/751 |
| 44 | US 6317418 B1 | 20011113 | 15 | Method for transmitting packet switched data in a mobile communications system | 370/278 | 370/277; 370/282; 370/913; 714/748; 714/799 |
| 45 | US 6310887 B1 | 20011030 | 32 | Transmission speed predicting apparatus and transmission speed predicting method | 370/465 | 370/320; 375/262; 714/746 |
| 46 | US 6289003 B1 | 20010911 | 15 | Method for transmitting packet switched data in a mobile communications system | 370/278 | 370/277; 370/282; 370/912; 370/913; 714/748; 714/751 |
| 47 | US 6247150 B1 | 20010612 | 9 | Automatic retransmission with order of information changed | 714/701 | 370/337; 714/748 |
| 48 | US 6233708 B1 | 20010515 | 10 | Method and device for frame error detection | 714/747 | |
| 49 | US 6212240 B1 | 20010403 | 8 | Method and apparatus for conveying data between communication devices | 375/261 | 370/468; 714/18; 714/748; 714/749 |

| | Inventor |
|-----------|---|
| 40 | Kalliojarvi; Kari |
| 41 | Rathonyi; Bela Stefan Kazmir et al. |
| 42 | Maeshima; Yasunori |
| 43 | Sugaya; Shigeru |
| 44 | Raitola; Mika et al. |
| 45 | Hatakeyama; Izumi |
| 46 | Raitola; Mika et al. |
| 47 | Niemela; Kari |
| 48 | Hindelang; Thomas et al. |
| 49 | Scheibel, Jr.; Robert C. et al. |

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|--------------|------------|-----------|--|---------------|--|
| 50 | US 6161207 A | 20001212 | 13 | Communications unit and method of communicating having efficient packet acknowledgement | 714/758 | 370/473; 370/474; 370/475; 714/748; 714/749; 714/750 |
| 51 | US 6141784 A | 20001031 | 14 | Method and system in a data communications system for the retransmission of only an incorrectly transmitted portion of a data packet | 714/748 | 370/473; 714/776 |
| 52 | US 6128763 A | 20001003 | 12 | Dynamically changing forward error correction and automatic request for repetition | 714/774 | 714/751 |
| 53 | US 6126310 A | 20001003 | 23 | Method apparatus and packet transmission system using error correction of data packets | 714/751 | 714/774 |
| 54 | US 6061820 A | 20000509 | 68 | Scheme for error control on ATM adaptation layer in ATM networks | 714/751 | 370/395.6 5; 714/701; 714/702; 714/711; 714/752; 714/760; 714/776 |
| 55 | US 6052812 A | 20000418 | 23 | Messaging communication protocol | 714/751 | 714/748; 714/797 |
| 56 | US 6003151 A | 19991214 | 17 | Error correction and detection system for mass storage controller | 714/752 | 714/48; 714/49; 714/54; 714/746; 714/748; 714/781; 714/785 |

| | Inventor |
|-----------|-------------------------------------|
| 50 | Lockhart; Thomas Wayne et al. |
| 51 | Davis; Gordon Taylor et al. |
| 52 | LoGalbo; Robert et al. |
| 53 | Osthoff; Harro et al. |
| 54 | Nakakita; Kumiko et al. |
| 55 | Chen; Zongbo et al. |
| 56 | Chuang; Cheng-Te |

| | Document ID | Issue Date | Page s | Title | Current OR | Current XRef |
|----|--------------|------------|-----------|--|---------------|---|
| 57 | US 5983382 A | 19991109 | 10 | Automatic retransmission query (ARQ) with inner code for generating multiple provisional decodings of a data packet | 714/744 | 370/260; 370/265; 370/352; 370/400; 370/402; 370/463; 714/703; 714/748; 714/753; 714/755 |
| 58 | US 5968198 A | 19991019 | 13 | Decoder utilizing soft information output to minimize error rates | 714/752 | 714/751; 714/755; 714/780 |
| 59 | US 5948116 A | 19990907 | 8 | Bit error correction algorithm | 714/746 | 714/797; 714/822 |
| 60 | US 5629948 A | 19970513 | 23 | Data transmission scheme with automatic repeat request | 714/748 | 714/750; 714/751 |
| 61 | US 5600663 A | 19970204 | 9 | Adaptive forward error correction system | 714/774 | 714/751 |
| 62 | US 5563895 A | 19961008 | 12 | Digital mobile radio communication system | 714/748 | |
| 63 | US 5548598 A | 19960820 | 6 | In a data communications systems a method of forward error correction | 714/751 | 714/758 |
| 64 | US 5502653 A | 19960326 | 14 | Testing data transmissions between fax modems through real time synchronization and resynchronization of asynchronous data | 709/224 | 375/238; 714/750; 714/775 |
| 65 | US 5440545 A | 19950808 | 15 | Packet delivery system | 370/426 | 370/442; 370/474; 714/748 |
| 66 | US 5426652 A | 19950620 | 8 | Data reception technique | 714/746 | 714/752 |
| 67 | US 4994993 A | 19910219 | 11 | System for detecting and correcting errors generated by arithmetic logic units | 708/533 | 714/746 |
| 68 | US 4905234 A | 19900227 | 52 | Apparatus and method for transmitting digital data over a radio communications channel | 370/349 | 370/913; 714/749 |

| | Inventor |
|----|---------------------------------|
| 57 | Pauls; Richard Joseph |
| 58 | Hassan; Amer A. et al. |
| 59 | Aslanidis; Konstantin O. et al. |
| 60 | Hagiwara; Junichirou et al. |
| 61 | Ayanoglu; Ender et al. |
| 62 | Malkamaki; Esa et al. |
| 63 | Dupont; Pierre |
| 64 | Lewis; Glenn M. |
| 65 | Buchholz; Dale R. et al. |
| 66 | Heiman; Arie |
| 67 | Asghar; Safdar M. et al. |
| 68 | Childress; Jeffrey S. et al. |

| | Document ID | Issue Date | Pages | Title | Current OR | Current XRef |
|----|--------------|------------|-------|--|------------|---|
| 69 | US 4887162 A | 19891212 | 39 | Facsimile machine having retransmission function | 358/400 | 358/434; 358/443; 358/447; 714/747 |
| 70 | US 4718067 A | 19880105 | 9 | Device for correcting and concealing errors in a data stream, and video and/or audio reproduction apparatus comprising such a device | 714/747 | 386/47 |
| 71 | US 4718066 A | 19880105 | 8 | Self-adaptive hybrid data transmission | 714/751 | |
| 72 | US 4329708 A | 19820511 | 33 | Digital signal processing apparatus | 348/617 | 348/466; 348/616; 360/32; 386/21; 714/747 |
| 73 | US 4144522 A | 19790313 | 18 | Electro-control system for data transmission | 714/748 | |

| | Inventor |
|-----------|-----------------------------|
| 69 | Arai; Yoshihiro |
| 70 | Peters; Joseph H. |
| 71 | Rogard; Roger |
| 72 | Yamamoto; Kaichi et al. |
| 73 | Kageyama; Satoshi et al. |